TORO®

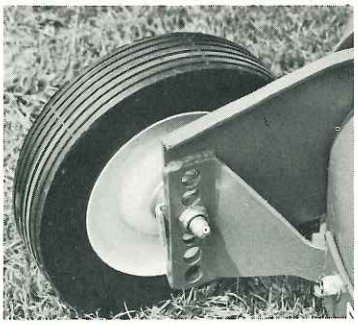
21″ HEVI-DUTY WHIRLWIND
HAND OR POWER PROPELLED

For RUGGED, TROUBLE-FREE continuous industrial MOWING

This rotary power mower has home-owner handling ease, but industrial ruggedness. It is designed for institutional customers who need smaller mowers for the hard-to-reach turf areas. The all-steel housing is rugged, and will stand up under toughest of cutting. The 4 h.p., 4 cycle engine will give continuous trouble-free operation. The engine has an oil pump for side hill operation, as well as an oil bath air cleaner for maximum engine protection. The wheels are mounted on ball bearings for easy free-wheeling. The 21-inch Hevi-Duty Whirlwind has been built to meet the rugged demands of industrial mowing. Available in hand propelled or self propelled models.

Traction Control: This unique traction control handle on the self propelled model assures operator safe, positive control of starting and stopping. Engages and disengages easily, quickly for trimming around bushes and obstacles.

Powerful 4 H.P. Engine: A rugged 4 h.p. 4 cycle engine with a 1" diameter crankshaft, provides continuous power to the cutter blade. The extra-large oil reservoir (1¾ pint) provides ample lubrication by means of an oil pump.

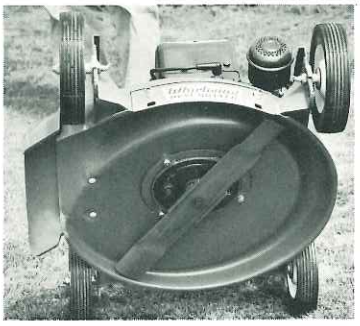


Height of Cut: Six different heights of cut between 1 inch and 4⅛ inches. This range allows the 21-inch Whirlwind Hevi-Duty to mow semi-formal turf, industrial turf, as well as control mowing.

Adjustable Front Shield: The shield can be left in the down position for average cutting on semi-formal turf. When tougher cutting is encountered on industrial turf or for control mowing—the front shield can be raised for better blade access to tall thick growth.

Trimming Ability: The 21-inch Hevi-Duty Whirlwind can trim to within ½ inch on the left side . . . and within 1 inch in the front with the shield lowered.

Four Handle Positions: The rugged handle can be adjusted to three operating levels as well as a storage position. For transporting, the handle can easily be removed.



Housing Design: The housing with Toro's exclusive Windtunnel® design allows a smooth uniform air flow to discharge clippings evenly (even in wet grass). The spiral grass chamber has a right-hand discharge.

Hinged Chute Deflector: The Chute deflector helps deflect clippings and spread them evenly over the ground. It is also a safety feature, and will deflect objects which might accidently be picked up and discharged by the blade.

FEATURES

Vacuum Cleaner Performance: The housing enables the 21-inch Hevi-Duty Whirlwind to perform like a vacuum cleaner. With the addition of a bagging kit, the 21-inch Hevi-Duty Whirlwind will catch grass as it is cut—pick up lawn debris—and bag leaves. Bags have a five-bushel capacity. (The Bagging Kit is optional.) When the bagging feature is desired, installation can be made easily.

Side Hill Stability: A low ground-hugging design results in good side hill operating characteristics. Overall height to the top of the engine (at 1 inch height of cut) is 14½ inches.

Heavy-duty Crankshaft: The crankshaft is 1 inch in diameter and only ¾ inches long. This short tough crankshaft is 300% stronger than most other 21-inch rotary mowers use.

Cutter Blade: The 21-inch cutter blade is of hardened high carbon steel, 3/16" thick. "Suction Lift".

Wheels: Stamped steel rims with 8-inch diameter x 1.75 semi-pneumatic tires. Tires are puncture proof. Each wheel has ball bearings with felt washers and dirt excluders, giving continuous free wheeling. Zerk fittings allow regular maintenance lubrication.

Housing: A stamped steel housing of 12-gauge thickness, assures durability that will withstand fatigue under the toughest of operating conditions. The circular housing has a heavy steel overframe that adds rigidity.

Large Fuel Capacity: A five quart fuel tank provides an extra-long operating range. Keeps the mower working without frequent stoppages for servicing

Oil Bath Air Cleaner: This type of air cleaner will help extend engine life.

Side Hill Lubrication: An engine oil pump provides forced lubrication to the entire engine, even on side hills. This constant lubrication assures minimum wear at any mowing attitude.

Engine Operating Controls: Starting position, engine speed, and ignition cut-off are all regulated from behind the handle. Recoil starter is easily reached by the operator for starting the engine.

Blade Cutting Speeds:

Engine R.P.M.	Blade Tip Speed
@ 2600 r.p.m.	14,300 feet per minute
@ 3600 r.p.m.	19,700 feet per minute

Optional Equipment:

Bagging Kit: Contains 2 giant-sized bags of 5 bushel capacity each, together with necessary rods for attaching—and a bagging chute. It is very effective for picking up grass clippings, leaves, and other debris—easily installed.

Flat Blade: For mowing in sandy areas, gives increased cutting power in heavy growth.

SPECIFICATIONS

Engine: 4.0 H.P. 4 cycle with oil pump, 1¾ pints capacity. Displacement 11.1 cubic inches, replaceable bronze main bearings, stellite exhaust valve and seat. Crankshaft extension 1" diameter x ¾" long. Oil bath air cleaner, recoil starter and 5 quart gas tank.

Cutter Blade: 21-inch hardened high carbon steel, positive attachment with one fastener.

Width of Cut: 21 inches.

Height of Cut: 1 inch to 4⅛ inches by moving wheels.

Housing: No. 12 gauge stamped steel. Spiral grass chamber, right hand discharge, hinged chute deflector.

Frame: Integral with housing; No. 10 gauge steel.

Wheels: Ball bearing steel disc wheels with 8 inch dia. x 1.75 inch semi-pneumatic tires. Zerk fittings for lubrication.

Handle: Welded steel tube in two separable halves; plastic hand grip; three position handle height adjustment.

Throttle Control: Control wire and casing; operating lever on upper handle.

Clutch — Self Propelled Model: Tight slack V-belt clutch operated from upper handle.

Traction Drive — Self Propelled Model: V-belt from 2.8 P.D. sheave on engine crankshaft to 4.0 P.D. sheave on speed reducer input shaft. 1.43:1 reduction engine to speed reducer.

Gear Case — Self Propelled Model: 6.25:1 worm gear drive.

Traction Drive — Self Propelled Model: 14T Stressproof steel pinions supported by double sealed ball bearings to 42T laminated steel spur gears riveted to wheels (3:1 reduction).

Dimensions: Width, 24¼ inches; Length, 34 inches; Height, 14½ inches (less handle, wheels at 1 inch cutting height).

Weight: H.P. Model 87 lbs., S.P. Model 110 lbs.

Optional Equipment: Bagging Attachment, Flat Blade.

Specifications and Trim Subject to Change Without Notice

TORO®

THE BEST POWER MOWER YOU CAN BUY

TORO 51 YEARS

TORO MANUFACTURING CORP.
MINNEAPOLIS 20, MINNESOTA

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